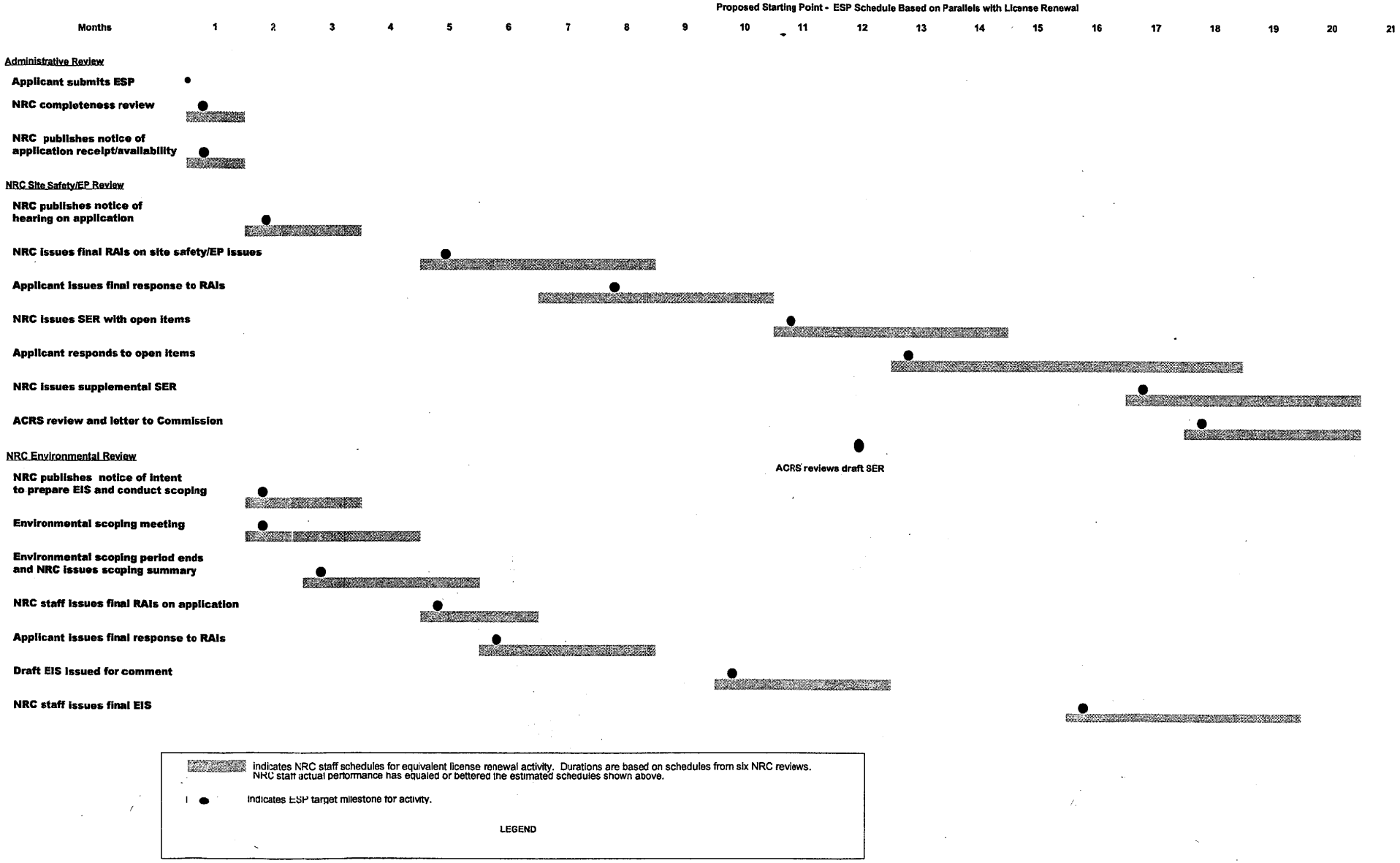
AGENDA
APRIL 24, 2002, MEETING
WITH NUCLEAR ENERGY INSTITUTE (NEI)
T10A1 10:30 am-12:30 pm

Agenda Item	Presenter
1. Introductory Remarks	NRC/NEI
2. Overview of NEI ESP Topics document	NEI
3. Discussion of Quality Assurance and Early Site Permitting	NEI/NRC
4. Discussion of Early Site Permit Inspection Guidance	NRC/NEI
5. Early Site Permit Review Schedule	NEI
6. Opportunity for Public Comment	
7. Action Items/Next Meeting/Adjourn	


Proposed Starting Point - ESP Schedule Based on Parallels with License Renewal
Months
1
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21
Administrative Review
Applicant submits ESP
NRC completeness review
NRC publishes notice of application receipt/availability
NRC Site Safety/EP Review
NRC publishes notice of hearing on application
NRC issues final RAIs on site safety/EP issues
Applicant issues final response to RAIs
NRC issues SER with open items
Applicant responds to open items
NRC issues supplemental SER
ACRS review and letter to Commission
ACRS reviews draft SER
NRC Environmental Review
NRC publishes notice of intent to prepare EIS and conduct scoping
Environmental scoping meeting
Environmental scoping period ends and NRC issues scoping summary
NRC staff issues final RAIs on application
Applicant issues final response to RAIs
Draft EIS issued for comment
NRC staff issues final EIS
indicates NRC staff schedules for equivalent license renewal activity. Durations are based on schedules from six NRC reviews. NRC staff actual performance has equaled or bettered the estimated schedules shown above.
indicates ESP target milestone for activity.
LEGEND

Topics for Discussion in Support of ESP Applications and Reviews

ESP Discussion Topic	Target Discussion Time Frame
1. ESP application template	April 2002
2. ESP inspection guidance	April 2002
3. QA requirements for ESP information	April 2002
4. Nominal NRC review timeline	April 2002
5. Mechanism for documenting resolution of ESP issues	April 2002
6. Use of bounding plant parameter envelope approach	May/June 2002
7. Guidance for satisfying §52.17(a)(1) requirement for description and safety assessment of the facility	May/June 2002
8. Use of a bounding approach for providing fuel cycle and transportation info required by NEPA (Tables S-3 & S-4)	May/June 2002
9. Criteria for assuring control of the site by the ESP holder	May/June 2002
10. Use for ESP of relevant findings from 10 CFR 51, Subpart B, Appendix B (License Renewal GEIS)	May/June 2002
11. Criteria for determining the initial duration of an ESP (10-20 years)	May/June 2002
12. Guidance for satisfying NEPA requirement to evaluate severe accident mitigation alternatives	May/June 2002
13. Guidance for seismic evaluations required by 10 CFR 50, Appendix S	May/June 2002
14. Applicability of Federal requirements concerning environmental justice	July 2002 and beyond
15. Appropriate level of detail for site redress plans	July 2002 and beyond
16. Guidance for ESP approval of "complete" emergency plans	July 2002 and beyond
17. Use of existing site/facility information (PRM-52-1)	July 2002 and beyond
18. NEPA -required review of alternatives (PRM-52-2)	July 2002 and beyond

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP -1

TOPIC: ESP application templates

DESCRIPTION: The industry is proposing to use templates in preparing an ESP application. Presently, there are three templates being considered:

- Table of contents for the application – this template provides a generic table of contents. We envision this template as providing consistency in applications in that the NRC staff will know where to find certain information.

- Common analyses – We will identify technical analyses that must be performed. Although site-specific information may vary, the use of a generic analysis would result in a uniform approach and level of detail. The seismic probability assessment is an example. The seismic data would vary by site and region, but the analysis methodology, overall approach, and output form would be consistent. Another area could be the environmental report. Environmental data would vary by site and region, but the overall approach, methodology, style and level of detail would be consistent.

- Common technology descriptions—We will work to coordinate common descriptions of various reactor technologies. The descriptions would be utilized by several applicants to describe the designs being considered. The descriptions would be inserted in the "Description of the Proposed Facility" section of the ESP application's Site Safety Analysis Report.

QUESTION(S) FOR DISCUSSION:

- Are generic analyses possible without ESP experience?

PRELIMINARY INDUSTRY POSITION (if applicable)

Providing information in the manner described above enhances commonality and consistency in content, style, and level of detail. The approach will minimize the likelihood for additional questions based on apparent different approaches or methodologies, level of detail, etc. Such standardization will improve NRC review efficiency and support effective use of resources.

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

NRC STAFF POSITION (if applicable)

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP -2

TOPIC: ESP Inspection Guidance

DESCRIPTION: The NRC is proposing to use Inspection Manual Chapter (IMC) 2511 "light Water Inspection Program-Pre-CP Phase" and its associated inspection procedures for ESP.

Additionally, there is some question as to whether the existing guidance (i.e. IMC-2511) is applicable to an ESP application. Further, for some of the ESP requirements, guidance may not exist or be applicable. An example is severe accidents. NRC's NEPA implementing regulation requires an analysis of severe accident mitigation alternatives. However, there is no specific guidance for conducting the analysis for an ESP. There is guidance for such an analysis in the NUREG-1555 but that only applies to license renewal.

QUESTION(S) FOR DISCUSSION:

- Will pre-submittal activities be included in the inspection guidance?
- Has NRC reviewed the existing regulatory guidance and made any determination on the applicability?
- Clarification is desired regarding the extent and scope of public meetings on or near proposed site during the pre-application phase versus technical meetings/inspections on or near the proposed site during the same period.
- What specific criteria will NRC be measuring?
- Will rule changes be required?
- If NRC proceeds with the pre-application activities, who pays?

PRELIMINARY INDUSTRY POSITION:

Public meetings hosted by the NRC and/or applicants, technical meetings between NRC and applicants at or on site. Industry will work with NRC to determine when such interactions are appropriate.

NRC STAFF POSITION

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 3

TOPIC: QA requirements of ESP information

DESCRIPTION: This topic focuses on the quality assurance requirements for preparing an ESP application. NRC is proposing to use IMC-2511 which has two Inspection Procedures (IP-35002 and IP-35016) related to QA.

QUESTION(S) FOR DISCUSSION:

- What are the NRC's expectations regarding the use of a quality program for preparing the application? Must the entire application be prepared under Appendix B or only certain portions such as the seismic analyses?
- Can an existing quality program be utilized if it is from a subsidiary company?
- NRC review should be related to information regarding quality program only (i.e., not reviewing specific data results as available)

PRELIMINARY INDUSTRY POSITION:

ESP applicants will have a quality program.

NRC STAFF POSITION:

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 4

TOPIC: Nominal NRC review timeline

DESCRIPTION: The industry developed a draft review schedule for an ESP application. As applicable, the schedule is based on regulatory requirements.

QUESTION(S) FOR DISCUSSION:

- Has the NRC staff further refined its review schedules from that initially presented in SECY 01-0188?

PRELIMINARY INDUSTRY POSITION:

We believe that the success of license renewal can be replicated in the new plant licensing processes through focused technical review efforts, commonality, and attention by senior management. The recently initiated senior management meetings provide a good forum for maintaining that focus.

NRC STAFF POSITION

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 5

TOPIC: Mechanism for documenting resolution of ESP issues

DESCRIPTION: As ESP issues are resolved; there should be some mechanism for capturing the resolution of such issues. Also, as ESP applications go through the review process, there will be lessons learned that should also be captured.

QUESTION(S) FOR DISCUSSION:

- For generic industry issues, will NRC document resolution in a letter to NEI? To the Commission?

PRELIMINARY INDUSTRY POSITION

State-of-the-art information management techniques and technology will be utilized to enhance effectiveness and efficiency. NRC and industry should work cooperatively to facilitate such communications and information exchange.

NRC STAFF POSITION:

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 6

TOPIC: Use of bounding plant parameter envelope approach

DESCRIPTION:
Part 51, Subpart A delineates the information that must be included in a early site permit application. In some instances, this information is a value. For example, §52.17(a)(1)(iv) states that the application must contain the maximum level of radiological and thermal effluents each facility will produce and §52.17(a)(1)(v) requires a description of the type of cooling systems, intakes, and outflows that may be associated with each facility. For certified designs, the associated PPE may have values that could be used to satisfy the two examples cited above. However, if the reactor type has not been selected, it is not clear how the rule provisions, noted in the examples, are satisfied.

QUESTION(S) FOR DISCUSSION:

PRELIMINARY INDUSTRY POSITION

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NRC STAFF POSITION:

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 7

TOPIC: Guidance for satisfying §52.17(a)(1) requirement for description and safety assessment of the facility

DESCRIPTION:
This language becomes problematic when the applicant has not decided on the reactor type.

QUESTION(S) FOR DISCUSSION:

INDUSTRY POSITION:

NRC STAFF POSITION:

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 8

TOPIC: Use of bounding approach for providing fuel cycle and transportation information required by NEPA (Tables S-3 and S-4)

DESCRIPTION: The NRC NEPA implementing regulation (10CFR Part51) requires an assessment of the environmental impacts associated with transportation of fuel and waste to and from the reactor. Presently, the regulation only addresses light water cooled reactors.

QUESTION(S) FOR DISCUSSION:

INDUSTRY POSITION:

NRC STAFF POSITION:

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 9

TOPIC: Criteria for assuring control of the site by the ESP holder

DESCRIPTION: Subpart A stipulates that "Any person..." may file and ESP application. As the electric power industry moves to deregulation, it is likely that the early site permit holder may not be the owner/operator of the nuclear power plant the is ultimately constructed. ?

QUESTION(S) FOR DISCUSSION:

INDUSTRY POSITION:

NRC STAFF POSITION:

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 10

TOPIC: Use of relevant findings from 10CFR Part 51, Subpart B, Appendix B (License Renewal) in an ESP application

DESCRIPTION:
10 CFR Part 51, Appendix B codifies findings related to environmental impacts for license renewal. In some instances it would seem that the generic evaluation underlying the findings in Appendix B might be applicable to early site permitting.

QUESTION(S) FOR DISCUSSION:

INDUSTRY POSITION:

NRC STAFF POSITION:

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 11

TOPIC: Criteria for determining the initial duration of an ESP
(10 – 20 years)

DESCRIPTION:
The regulations state that the permit is neither valid for not less than 10 years nor greater than twenty.

QUESTION(S) FOR DISCUSSION:

INDUSTRY POSITION:

NRC STAFF POSITION

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 12

TOPIC: Guidance for NEPA requirement to evaluate severe accident mitigation alternatives

DESCRIPTION:

QUESTION(S) FOR DISCUSSION:

INDUSTRY POSITION:

NRC STAFF POSITION

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 13

TOPIC: Guidance for seismic evaluations required by 10CFR50, Appendix S

DESCRIPTION:

QUESTION(S) FOR DISCUSSION:

INDUSTRY POSITION:

NRC STAFF POSITION

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 14

TOPIC: Applicability of Federal requirements to evaluate Environmental Justice

DESCRIPTION: NEPA analyses for major federal actions require an Environmental Justice evaluation. Such an evaluation is required for ESP.

QUESTION(S) FOR DISCUSSION:

INDUSTRY POSITION:

NRC STAFF POSITION

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 15

TOPIC: The site redress plan

DESCRIPTION: What is the appropriate level of detail in the site redress plan.

QUESTION(S) FOR DISCUSSION:

INDUSTRY POSITION:

NRC STAFF POSITION

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP -16

TOPIC: Guidance for approval of "complete" emergency plans

DESCRIPTION: The ESP regulations allow an applicant to submit proposed major features of the emergency plans proposed complete and integrated emergency plans.

QUESTION(S) FOR DISCUSSION:

INDUSTRY POSITION:

NRC STAFF POSITION

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 17

TOPIC: Duplicative reviews (PRM-52-1)

DESCRIPTION:

INDUSTRY POSITION:

NRC STAFF POSITION

TOPICS FOR DISCUSSION IN SUPPORT OF ESP APPLICATIONS AND REVIEWS

STATUS:

TOPIC# ESP - 18

TOPIC: Review of alternatives (PRM-52-2)

DESCRIPTION:

INDUSTRY POSITION:

NRC STAFF POSITION